

Title (en)

Fast handover method for IEEE 802.11 wireless LAN networks

Title (de)

Verfahren zum schnellen Weiterreichen in IEEE 802.11 drahtlosen LAN Netzen

Title (fr)

Procédé de transfert rapide pour des réseaux locaux sans fil IEEE 802.11

Publication

**EP 1599062 A2 20051123 (EN)**

Application

**EP 05010675 A 20050517**

Priority

- KR 20040034958 A 20040517
- KR 20050038890 A 20050510

Abstract (en)

A fast handover method optimized for IEEE 802.11 networks. In a wireless local area system including a mobile terminal and at least two wireless access points (APs) that communicate with the mobile terminal over a unique radio channel, the fast handover method includes receiving a beacon frame signal from the serving AP and the neighbor APs of the mobile terminal; generating a first signal to determine a state of each of the neighbor APs based on the beacon frame signal received from each of the neighbor APs; comparing the first signal with predefined thresholds, classifying the neighbor APs into a detected AP, a candidate AP, and a target AP according to a result of the comparison, and storing the classification result in a neighbor AP list; and selecting an AP for the handover based on the classification result in the neighbor AP list.

IPC 1-7

**H04Q 7/38**

IPC 8 full level

**H04W 36/30** (2009.01); **H04L 12/28** (2006.01); **H04W 36/00** (2009.01); **H04W 36/08** (2009.01); **H04W 36/36** (2009.01); **H04W 80/04** (2009.01); **H04W 84/12** (2009.01); **H04W 88/08** (2009.01)

CPC (source: EP US)

**H04W 36/00835** (2018.07 - EP US); **H04W 36/0061** (2013.01 - EP US); **H04W 36/302** (2023.05 - EP US); **H04W 84/12** (2013.01 - EP US)

Citation (applicant)

- EP 1418711 A2 20040512 - SAMSUNG ELECTRONICS CO LTD [KR], et al
- EP 1458209 A2 20040915 - SAMSUNG ELECTRONICS CO LTD [KR]

Cited by

CN101854454A; EP1944910A1; US8553651B2; US7864705B2; US8543065B2; US8521158B2; WO2014195563A1; WO2012074649A1; TWI416969B

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR LV MK YU

DOCDB simple family (publication)

**EP 1599062 A2 20051123**; **EP 1599062 A3 20090107**; **EP 1599062 B1 20170419**; JP 2005333648 A 20051202; JP 4054341 B2 20080227; US 2005255847 A1 20051117; US 7676226 B2 20100309

DOCDB simple family (application)

**EP 05010675 A 20050517**; JP 2005144752 A 20050517; US 13025005 A 20050517